

FIRE SAFETY INSPECTION REPORT

SQ CELSIUS LTD

BERAIDECHALA, KEOA, MAONA, SREEPUR, GAZIPUR

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

June 5, 2014

SUMMARY

SQ Celsius Ltd was surveyed for fire safety on 6/5/2014 by Hughes Associates, Inc. This summary identifies the major deficiencies that were identified during the inspection.

The purpose of this survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the Accord. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections.

Tables 1 - 2 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue.

An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the Accord for approval.

Table 1. Findings And Recommendations - Building 1

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The finished goods store on the 1st floor and the accessory store on the ground floor are separated by non-fire-rated construction from the adjacent work areas and exit stairs.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months



F-2	Fire Rated Construction	A significant amount of storage was observed to be open to the factory floor and dining area, particularly on the ground floor.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.4m and maximum area of 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	Within 3 months
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F-3	Fire Rated Construction	The industrial gas dryers in the washing area are not separated by any fire-rated construction.	Separate the gas dryers in a room with a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations	Within 3 months
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F-4	Egress	The exit capacity of the mezzanine (447) was insufficient for the maximum occupant load (478). The exit capacity of the 1st floor (1368) was insufficient for the maximum occupant load (1849).	Reduce the occupant load of the 1st floor to no more than 1368, and the mezzanine to no more than 447, immediately. In the future, if a greater occupant load is desired, add additional exits.	Immediate
F-5	Fire Protection	Inspection, testing, and maintenance for the fire alarm system were not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Within 3 months
F-6	Fire Protection	Based on observations, the smoke detectors were not installed in accordance with NFPA 72.	Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Within 6 months



Table 2. Findings And Recommendations - Building 2

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The bonded warehouse on the ground floor exits directly into the Southeast stair enclosure.	Change exit arrangement so that the bonded warehouse exits directly to the exterior.	Within 3 months



F-2	Fire Rated Construction	The automatic knitting section on the 1st floor had a glass door to the Northwest stair, and no door in the opening to the Northeast stair. On the 2nd floor, which was under construction, no doors were yet installed at the exit enclosures.	Provide minimum 1.5-hr fire rated doors and seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.	Within 3 months
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F-3	Fire Rated Construction	The boiler and generator rooms are not separated by fire-rated construction due to unprotected openings and non-rated doors. These rooms are arranged so that windows on Building 2 are exposed to the unprotected openings.	Separate the boiler and generator rooms by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations	Within 3 months
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F-4	Egress	The exit capacity of the 1st and 2nd floors (673) was insufficient for the maximum occupant load (876).	Reduce the occupant load on the 1st and 2nd floors to no more than 673 immediately. In the future, if a greater occupant load is desired, add additional exits.	Immediate
F-5	Fire Protection	Inspection, testing, and maintenance for the fire alarm system were not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Within 3 months
F-6	Fire Protection	There was no fire detection system provided on the 2nd floor, which was under construction.	Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Within 6 months